
I² INTERFACE INC

The under \$1000 10-megabyte Winchester disk drive for the IBM PC



The highest margins for dealers come from Interface

Interface continues to lead the way in providing dealers with low cost drives—Winchesters, floppies, and half-heights. Your one-stop source for disk storage for IBM/Compaq, Apple, Tandy and other popular personal computers.

The under \$1000 Winchester

Our 10-megabyte DiskSystem® for the IBM PC 2.0 DOS comes complete with an industry-standard 5-1/4" Winchester disk drive, cabinet, power supply, cable, controller, I/O adapter and device driver. And its suggested retail price is \$1495—giving dealers a healthy 50% markup. We also have 15 and 25 megabyte models with suggested retail prices of \$1795 and \$2245. All with the same high margin for you.

Backed with proven service

Hundreds of dealers across the country have recognized that Interface provides them with full support and service. We have our own in-house service and repair center. We provide dealers with personalized technical support. With nearly 10,000 DiskSystems shipped, Interface is the leader in providing dealers with the full range of disk drives.

For more information on our low cost DiskSystems, call Interface today.

I² INTERFACE INC

7630 Alabama Avenue
Canoga Park, CA 91304
(213) 341-7914 • Telex: 662949

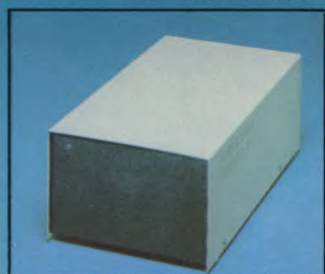
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Prices are suggested retail and subject to change without notice
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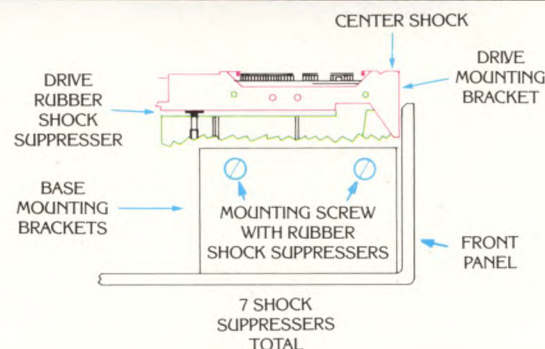
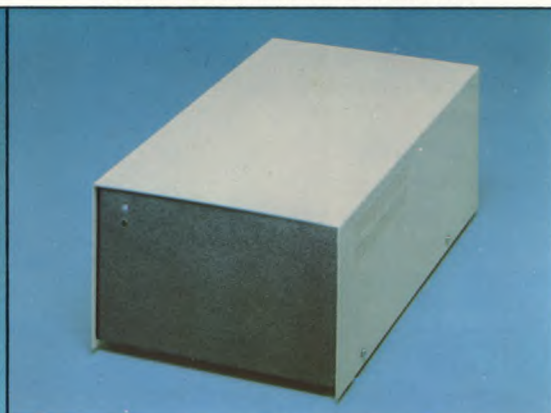
5 1/4" Winchester DiskSystem[®] for IBM PC-2.0

■ 10, 15 and 25 megabyte models available now! ■ Complete subsystem includes disk drive, cabinet, power supply, cable, connector, and I/O adapter for 2.0 DOS ■ Exclusive double shock isolation system ■ Underwriters Laboratories approval on cabinet and power supply ■ IBM PC compatibility tested before shipment ■ Standard warranty including 90 days parts and labor

INTERFACE's 5 1/4" Winchester disk drive



IBM PC in standard configuration with Winchester in background



Double shock mounting for vibration isolation

Move up to high capacity storage on the IBM PC

Now, you can have large-scale storage on the IBM PC. INTERFACE's I²BM 5 1/4" Winchester disk drives give you a choice of formatted storage capacities ranging from 10.6 megabytes up to 25.1 megabytes. Suddenly, your IBM PC can perform like an IBM XT. Best of all, INTERFACE gives you low-cost Winchester drives.

I²BM-10P 10.6 megabytes formatted storage \$1695.00

I²BM-15P 15.6 megabytes formatted storage \$2295.00

I²BM-25P 25.1 megabytes formatted storage \$2995.00

IBM PC compatible floppy disk drives

INTERFACE also offers a complete range of 5 1/4" floppy disk drives that are IBM PC compatible. In addition, INTERFACE has 5 1/4" floppy disk drives for other popular personal computers. Contact INTERFACE for additional information.

Dealer Inquiries Invited

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5 1/4" Winchester Disk Drive Specifications

CAPACITY	I ² BM-10P	I ² BM-15P	I ² BM-25P
IBM formatted capacity:	10.6 MB	15.9 MB	25.1 MB
DISK DRIVE			
Number of platters:	2	3	3
Number of data surfaces:	4	6	5
Cylinders:	306		578
Tracks per inch:	345		367
Average latency:	8.3 milliseconds		
Track-to-track access time:	2 milliseconds		
Head settling time:	15 milliseconds		5 milliseconds
Average access time:	85 milliseconds		54 milliseconds
MTBF:	10,000 power-on hours		
CONTROLLER			
Microprocessor based architecture			
Full sector buffer (512 bytes)			
Error correction—32 bits			
Interleave—Automatic			
POWER/CABINET SUPPLY			
Power—175 watts			
Voltage*—110–120 Volts AC 60Hz, or 220 Volts AC 50Hz, or 240 Volts AC 50Hz			
Safety approvals—Underwriters Laboratories			
SYSTEM			
Operating Temperature—4°C to 50°C (39°F to 122°F)			
Relative humidity—10–95%			
Maximum wet bulb temperature—85° noncondensing			
Altitude—Sea level to 7500 Feet			
SOFTWARE			
IBM DOS 2.0 (not supplied)			

*Must be specified at time of order

Specifications subject to change without notice.

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Low Cost DiskSystems[®] for IBM PC XT

- 5 1/4" Winchester disk drive subsystems with up to 50 megabytes of additional formatted storage for the PC XT ■ Subsystems include disk drive, cabinet, power supply, cable, and connector ■ Dual half-height floppy disk subsystems with up to 720K bytes of formatted storage ■ Operates under unmodified 2.0 DOS ■ Exclusive double shock isolation system on Winchester disk drives
 - Underwriters Laboratories approval on cabinet and power supply
 - Standard warranty including 90 days parts and labor



Move up to higher capacity backup and storage on the IBM PC XT and PC

INTERFACE's IBM 5 1/4" Winchester DiskSystems give you a choice of additional formatted storage or XT backup with capacities ranging from 10.6 megabytes to 25.1 megabytes. With INTERFACE's DiskSystems, your IBM PC XT will perform like a minicomputer. Best of all, INTERFACE DiskSystems are low cost.

I ² BM-10X 10.6 megabytes formatted storage	\$1285
I ² BM-15X 15.9 megabytes formatted storage	\$1595
I ² BM-25X 25.1 megabytes formatted stored	\$2295
(Prices are suggested retail)	

Half-height floppy DiskSystems

INTERFACE also has for the IBM PC XT a dual half-height floppy system that delivers 720K bytes of floppy storage. The half-height system is designed to be mounted internally on the IBM PC XT. It directly replaces the "A" drive.

I²BM-2X Two half-height floppy disks with 360K bytes each . . \$535

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INTERFACE

5 1/4" DiskSystem

Specifications

CAPACITY	I ² BM-10X	I ² BM-15X	I ² BM-25X
IBM formatted capacity:	10.6 MB	15.9 MB	25.1 MB

DISK DRIVE

Number of platters:	2	3	3
Number of data surfaces:	4	6	5
Cylinders:	_____ 306	_____	578
Tracks per inch:	_____ 345	_____	367
Average latency:	_____	8.3 milliseconds	_____
Track-to-track access time:	_____	2 milliseconds	_____
Head settling time:	_____ 15 milliseconds	_____	5 milliseconds
Average access time:	_____ 85 milliseconds	_____	54 milliseconds
MTBF:	_____	10,000 power-on hours	_____

CONTROLLER

Capability included as required by application.

POWER/CABINET SUPPLY

Power:	_____ 175 watts
Voltage*:	_____ 110-120 Volts AC 60 Hz, or 220 Volts AC 50 Hz, or 240 Volts AC 50 Hz
Safety Approvals:	_____ Underwriters Laboratories

SYSTEM

Operating temperature:	_____ 4°C to 50°C (39°F to 122°F)
Relative humidity:	_____ 10-95%
Maximum wet bulb temperature:	_____ 85° noncondensing
Altitude:	_____ Sea level to 7500 Feet

SOFTWARE

Operates under unmodified 2.0 DOS

I²BM-2X SPECIFICATIONS

Formatted recording capacity: 720K bytes	Average rotational latency: 100 milliseconds
Tracks per diskette: 80	MTBF: 8,000 power-on hours
Tracks per inch: 48 TPI	Average component life: 5 years
Disk Rotational Speed: 300 RPM \pm 1.5 Percent	Preventative maintenance: None required
Track-to-track access time: 6 milliseconds	Media life (reference only): 4×10^6 passes per track
Head settling time: 15 milliseconds	Error rates:
Head load time: NONE	Soft read: 1 in 10^9 bits
Average access time including head settling	Hard read: 1 in 10^{12} bits
time: 171 milliseconds	Seek error: 1 in 10^6 seeks
Motor start time: one second maximum	

*Must be specified at time of order

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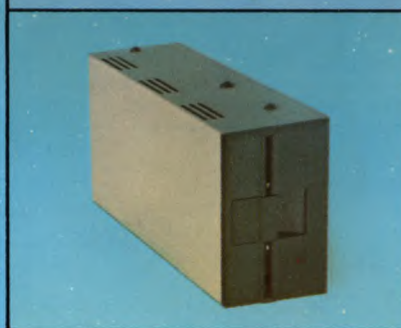
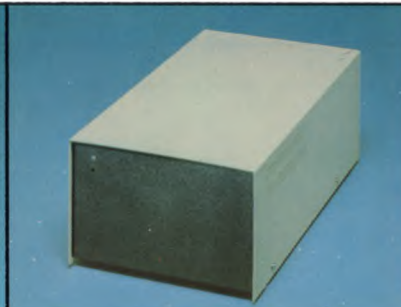
Major Savings on Tandon Disk Drives for the IBM PC

■ Up to 2.6 megabytes formatted storage with floppy disks ■ Up to 50 megabytes Winchester disk drive storage ■ 2.0 DOS compatible ■ IBM compatibility tested before shipment ■ Floppy disks can be mounted internally or externally ■ Simple plug-in installation with no additional wiring or electronics required ■ Standard warranty includes 90 days parts and labor

IBM PC with two Tandon drives installed internally

5 1/4" Winchester disk drive for IBM PC

Dual internal half height drives



Standard sized 5 1/4" floppy disk drive for external mounting

Internal and External 5 1/4" Floppy Drives

Tandon disk drives for mounting internally or externally. For internal mounting, basic drive is provided which is a simple plug-in installation with IBM DOS compatibility. For external mounting, complete subsystem is provided including disk drive, cabinet, power supply and cable.

TM100-1 Single-sided, double density drive with 160K bytes IBM format

TM100-2 Double-sided, double density drive with 360K bytes IBM format

HalfHi Drives

These half-height 5 1/4" floppy drives mount internally. A dual drive configuration is available.

Double-sided, double density drive with 360K IBM format

5 1/4" Winchester Disk Subsystems

Ten to 25 megabytes of IBM formatted storage. Completely self-contained design with unique double shock suspension. Includes Winchester disk drive, cabinet, power supply, cable, controller, and I/O adapter. Operates with 2.0 DOS.

I²BM-10P 10 megabytes
Winchester disk drive
I²BM-15P 15 megabytes
Winchester disk drive
I²BM-25P 25 megabytes
Winchester disk drive

Dealer Inquiries Invited—
We have it all for you

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IBM PC COMPATIBLE DISK DRIVES SPECIFICATIONS

CAPACITY	TM100-1	TM100-2	HalfHi
Formatted recording capacity for IBM PC: (All are double density recording)	180K	360K	360K
Tracks per diskette:	40	80	80
Tracks per inch:	48	48	48
Disk rotational speed:	300 RPM \pm 1.5 percent		
ACCESS TIME			
Track-to-track access time: (milliseconds)	5	5	5
Head settling time:	15 milliseconds		
Head loading time:	NONE		
Average access time, (milliseconds) including head settling time:	75	75	75
Motor start time:	250 milliseconds max.		
Data transfer rate:	250,000 bits per second		
Average rotational latency:	100 milliseconds		
RELIABILITY			
MTBF:	8000 Power-on Hours, typical usage, 25% duty cycle		
Preventative Maintenance:	NONE		
MTTR:	30 minutes		
Passes per track:	4×10^6		
Error rate:			
Soft read:	1 in 10^9 bits		
Hard read:	1 in 10^{12} bits		
Seek errors:	1 in 10^6 seeks		
ELECTRICAL REQUIREMENTS			
+ 5 Volts D.C. Power:	+ 5 volts \pm 0.25 volts at 600 milliamperes average with 50 millivolts peak-to-peak ripple		
+ 12 Volts D.C. Power:	+ 12 volts \pm 0.6 volts at 900 milliamperes average with 100 millivolts peak-to-peak ripple		

Specifications subject to change without notice

5 $\frac{1}{4}$ " Winchester disk drive specifications are available upon request from Interface, Inc.

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Apple II Compatible Disk Drives

- Low cost Apple-compatible floppy disk drives with half-tracking
- Straddle erase head
- Easy to install. Simple Plug-in. No additional wiring required.
- Standard sized 5¼" floppy disk drives
- ThinLine half-height 5¼" floppy disk drives
- Dual ThinLine half-height 5¼" floppy disk drives
- Disk storage same as Apple disk drives
- Standard warranty includes 90 days parts and labor



A



B



C



D

- A) Apple II with standard sized INTERFACE 5¼" floppy disk drive
B) Apple II with standard sized INTERFACE 5¼" floppy disk drive and ThinLine half-height floppy disk drive
C) Dual half-height 5¼" floppy disk drive configuration
D) Single half-height 5¼" floppy disk drive configuration

Price and Technology Breakthrough

Thousands of Apple II owners have increased their disk storage capacity for less cost than they ever imagined thanks to a new price breakthrough. INTERFACE delivers Apple II compatible disk drives, in either full size or half-height versions, at less cost than similar drives. All drives operate with the

Apple II disk interface and 3.3 DOS. A standard 20-conductor cable is provided to connect the INTERFACE drive with the Apple Disk II interface PCBA. An Apple Disk Controller is required. Drive subsystem includes 5¼" drive, cabinet and cable. System handles 3.3 DOS, PASCAL and CP/M programs.

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Apple is a registered trademark of Apple Computer, Inc.
ThinLine is a registered trademark of Tandon Corporation

INTERFACE INC. APPLE COMPATIBLE DRIVES SPECIFICATIONS

CAPACITY		STANDARD 5¼"		THINLINE 5¼"	
Formatted Recording Capacity (3.3 DOS):		143,360 bytes		163,840 bytes	
FUNCTIONAL SPECIFICATIONS					
Track to Track Access Time:		20 ms			
Rotational Speed:		300 RPM ± 1.5%			
Number of Tracks:		35		40	
D.C. VOLTAGE REQUIREMENTS					
+ 12V ± 5% (selected):		600 milliamps		650 milliamps	
+ 5V ± 5%		200 milliamps		300 milliamps	
MECHANICAL DIMENSIONS					
Width:		* 5.75"			
Height:		3.25"		1.625"	
Depth:		8.25"		7.69"	
Weight:		3 Lbs			
RELIABILITY SPECIFICATIONS					
Mean Time Between Failure:		8,000 Power on Hours at 25% Duty Cycle			
Mean Time to Repair:		30 Minutes			
Preventative Maintenance:		None			
Media Life (Reference Only):		3 × 10 ⁶		3 × 10 ⁶	
Error Rates:					
Soft Read:		1 in 10 ⁹ bits			
Hard Read:		1 in 10 ¹² bits			
Seek Read:		1 in 10 ⁶ seeks			

*Dimensions (exclusive of front panel)

*Specifications subject to change without notice.

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Canoga Park, CA 91304
(213) 341-7914

I2 INTERFACE INC.
DEALER PRICE LIST

7630 Alabama Ave. Unit 6
Canoga Park, CA 91304
(213) 341-7914
TLX 8662949

January 1, 1984

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be copied without the written consent of INTERFACE INC.

ALL PRODUCTS ARE SUBJECT TO THE WARRANTY ATTACHED HERETO.

This price list is subject to change without notice.

WINCHESTER SUBSYSTEMS FOR I.B.M. PC AND COMPATIBLES

<u>PC's UNDER DOS 2.0</u>	<u>DEALER PRICES</u>			<u>RETAIL</u>	
	QTY'S	1-5	6-12	13-UP	
I28M10P					
10 MEGABYTE DISKSYSTEM. . . .		\$995	\$950	\$915	\$1495
I28M15P					
15 MEGABYTE DISKSYSTEM. . . .		\$1150	\$1095	\$1070	\$1795
I28M25P					
25 MEGABYTE DISKSYSTEM. . . .		\$1595	\$1545	\$1495	\$2245
I28M33P					
33 MEGABYTE DISKSYSTEM. . . .		\$1895	\$1845	\$1795	\$2795

BACKUP OR ADDITIONAL STORAGE FOR THE I28MP DISKSYSTEM OR I.B.M. PC XT

I28M10S OR I28M10X 10 MEGABYTES. . . .	\$795	CALL FOR QUOTE	\$1195
I28M15S OR I28M15X 15 MEGABYTES. . . .	\$895	CALL FOR QUOTE	\$1295
I28M25S OR I28M25X 25 MEGABYTES. . . .	\$1295	CALL FOR QUOTE	\$1895
I28M33S OR I28M33X 33 MEGABYTES. . . .	\$1595	CALL FOR QUOTE	\$2295

PRICES INCLUDE EVERYTHING YOU NEED TO BECOME OPERATIONAL.

I.B.M. is a Trademark of the I.B.M. CORP.

FULL SIZE 5 1/4" FLOPPY DISK DRIVES

<u>TANDON</u>		<u>DEALER PRICES</u>				<u>RETAIL</u>
	QTY'S	1-5	6-12	13-24	24-UP	
TM100-1						
48TPI SS/DD.		\$165	\$155	\$150	\$150	\$215
TM100-2						
48TPI DS/DD.		\$220	\$205	\$200	\$195 OR CALL	\$325
TM101-4						
76TPI DS/DD.		\$290	\$275	\$265	\$255	\$425

HALF HEIGHT 5 1/4" FLOPPY DRIVES

<u>TANDON</u>						
TM50-1						
48TPI SS/DD 20 MS.	\$145	\$130	N/A	N/A		\$185
TM50-2						
48TPI DS/DD 6 MS.	\$205	\$190	N/A	N/A		\$275
TM55-4						
96TPI DS/DD 3 MS.	\$270	\$250	N/A	N/A		\$355

SHUGART

OSA455						
TWO SA455 MOUNTED TOGETHER. .	\$375	\$375	\$370	\$365		\$550
SA455						
SINGLE SA455 48TPI DS/DD. .	\$205	\$190	\$185	\$185		\$295

8" HALF HEIGHT FLOPPY DRIVES

TM848-1						
48TPI SS/DD.	\$325	\$310	\$300	\$290		\$475
TM848-2						
48TPI DS/DD.	\$400	\$375	\$365	\$355		\$575

APPLE COMPATIBLE DRIVES

DEALER PRICES

QTY	1-5	6-12	13-24	25-UP	RETAIL
I2AI 5 1/4" Apple Assy . .	\$185	\$150	\$145	\$140	\$245
I2ASHH Single 1/2 Height. .	\$195	\$170	\$165	\$160	\$295
I2ADHH Dual 1/2 Heights. .	\$380	\$335	\$325	\$315	\$550

FLOPPY DISK CONTROLLERS

	<u>DEALER</u>	<u>RETAIL</u>
Maynard, I.B.M. Equivalent.	\$150	\$215
Apple Equivalent.	\$65	\$80

CABLES

	<u>DEALER</u>	<u>RETAIL</u>
Tandy single drive.	\$17	\$25
Tandy dual drive.	\$21	\$30
I.B.M. drive C	\$19	\$30
I.B.M. drive C & D.	\$23	\$35

Tandy is a Trademark of the Tandy Corp.
I.B.M. is a Trademark of the I.B.M. Corp.

FREIGHT. F.O.B. FACTORY

WARRANTY. STANDARD WARRANTY APPLIES
INCLUDES 90 DAY PARTS AND LABOR.
EXTENDED WARRANTY AVAILABLE, UPON
PLACEMENT OF ORDER.

WARRANTY

Seller warrants products of its manufacture to be free from defect in workmanship and material under normal use and service for a period of 90 days after the date of shipment. Seller agrees to repair or replace at its repair center, without charge, all defective products which are returned for inspection to said center within the applicable warranty period; provided such inspection that the defects are as specified above, and provide further the equipment has not been altered or repaired other than with authorization from seller and its approved procedures, not been subject to misuse, improper maintenance, negligence or accident, damaged by excessive current or otherwise had its serial number or any part thereof altered, defaced or removed. All defective items replaced hereunder shall become the property of the seller. THIS WARRANTY IS IN LIEU OF, AND BUYER WAIVES, ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MECHANICABILITY OR FITNESS FOR PURPOSE. The warranty set forth herein may not be modified except by written amendment executed by an officer of INTERFACE INC.